

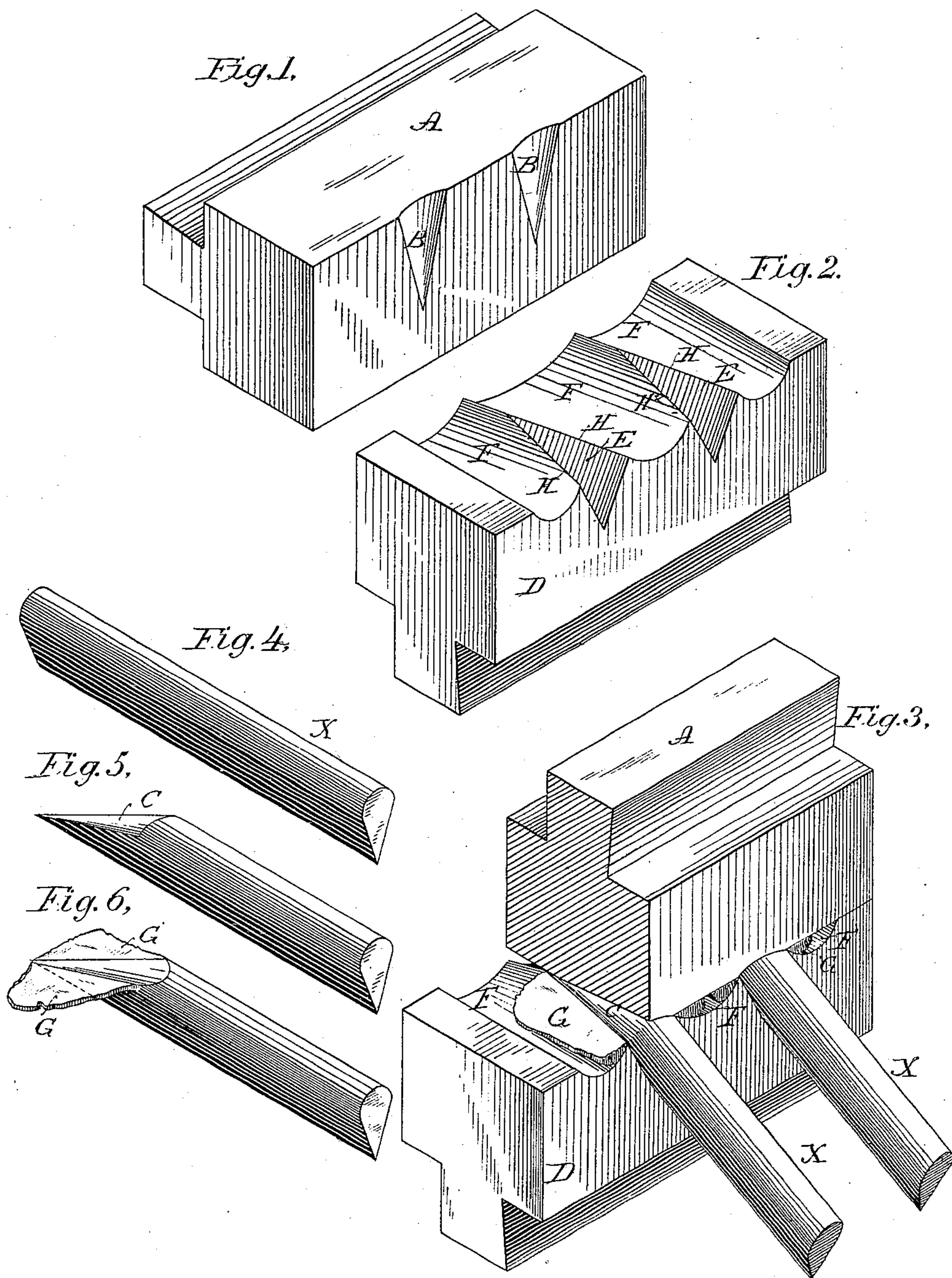
(No Model.)

J. HERSHEY.

DIE FOR POINTING OR SHARPENING HARROW TEETH.

No. 262,294.

Patented Aug. 8, 1882.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOSEPH HERSHEY, OF JOLIET, ILLINOIS.

## DIE FOR POINTING OR SHARPENING HARROW-TEETH.

SPECIFICATION forming part of Letters Patent No. 262,294, dated August 8, 1882.

Application filed March 23, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH HERSHEY, of Joliet, in the county of Will and State of Illinois, have invented certain new and useful  
5 Improvements in Dies for Pointing or Sharpening Harrow-Teeth, of which the following is a specification.

In the accompanying drawings, Figure 1 represents the upper or hammer portion of the  
10 dies; Fig. 2, the lower or anvil portion. Fig. 3 shows an elevation of the dies in working position with two harrow-teeth in place, having been pointed by operation of the dies. Fig. 4 represents a blank harrow-tooth before  
15 pointing or sharpening; Fig. 5, the same after pointing or sharpening. Fig. 6 illustrates a pointed harrow-tooth with fins attached upon each side, which were the result of the defective mode of sharpening harrow-teeth practiced  
20 previous to my invention.

The object of my invention is to point or sharpen edged harrow-teeth rapidly by means of suitable dies, so that no fins of metal shall be left upon them, and so that they shall be  
25 in a smooth and complete finished condition, as illustrated in Fig. 5.

Heretofore, owing to the defects in dies for pointing or sharpening harrow-teeth, they have been left after the work of the dies was done  
30 upon them with fins attached upon either side, as shown in Fig. 6, which fins had to be afterward removed, and that was an expensive and troublesome operation.

Referring to the letters upon the drawings,  
35 A indicates the hammer or upper portion of

the dies, which may be operated by steam to strike blows, or slowly by hydraulic or other pressure. This hammer is provided with one or more tapering concavities, B, suitable to form the tapering portion of the point of a harrow-tooth, as indicated at C in Fig. 5.

D indicates the lower or anvil portion of the dies, provided with one or more inclined V-shape recesses, E, and with the oppositely-inclined passages or concavities F. Blank harrow-teeth X are to be inserted in the recesses E, as illustrated in Fig. 3, the hammer A being so adjusted that the concavities B register with the recesses E when the hammer is brought down upon the anvil, as shown in Fig. 3. The result will be to cleanly point or sharpen and finish the harrow-teeth, as illustrated in Fig. 5. The fins G will be clipped off entirely by the cutting-edges H of the anvil, when they may be passed out of the way through the concavities F.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The die A, provided with one or more inclined concavities B, in combination with the die D, provided with one or more inclined V-shaped recesses, E, and with two or more concavities, F, and cutting-edges H, substantially as and for the purpose set forth.

JOSEPH HERSHEY.

Witnesses:

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